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computer networks, queueing applications, steady-state

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models, human resources, implementation

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inventory, single period demand, deterministic demand

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information systems, system design, information quality, cost/quality tradeoffs

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portfolio decisions, empirical, dominance

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organisational flexibility, management of technology, diffusion research, computer integrated manufacturing, flexible manufacturing

Bessler DA, Chamberlain PJ (1987) On Bayesian Composite Forecasting. **15**(1), 43–48.
beta distribution, composite forecasting

Bhatnagar SC, Patel NR (1988) Decentralised Computing for Rural Development. **16**(2), 165–170.
DSS rural development, microcomputers, developing countries, models

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state intervention, aerospace industry

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state intervention, offset, macro-industrial economy

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state intervention, multinationals, macro-industrial economy

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banking, interest risk, goal programming, elasticity

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decision style, contingency model, diagnosis

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aggregate planning, manufacturing management

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location analysis, capacity planning, distribution

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just in time, manufacturing, electronics industry

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buffering decisions, safety stock inventory management

Chung CH,Krajewski LJ (1987) Interfacing Aggregate Plans and Master Production Schedules via a Rolling Horizon Feedback Procedure. **15**(5), 401–409.
aggregate production planning, master production scheduling, rolling schedules, hierarchical production planning

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decision support systems, strategic decision making

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modeling, warehouse location, warehouse capacity, distribution, optimization

Cosmetatos G *et al.* (1988) Labour Productivity: Is There Such a Measure? (The Case of Greek Industry). **16**(1), 11–16.
case study, productivity, labour, measurement, industry

Davis SG *et al.* (1989) Processing Center Location Analysis for Multiple Branch Banks. **17**(2), 169–175.
location, banks

Davis WJ, Carnahan JV (1987) Decision Support for Road Surface Maintenance. **15**(4), 313–322.
decision support systems, deterioration model, maintenance, Markov chain, dynamic programming

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information systems, manufacturing production, planning and control, manufacturing, integration

Deckro RF, Murdock GW (1987) Media Selection via Multiple Objective Integer Programming. **15**(5), 419–427.
integer programming, multiple criteria

Deckro RF, Hebert JE (1989) Resource Constrained Project Crashing. **17**(1), 69–79.
project management, project crashing, resource constrained scheduling, integer programming, scheduling

Dileepan P, Sen T (1988) Bicriterion Static Scheduling Research for a Single Machine. **16**(1), 53–59.
bicriterion, multiple criteria, scheduling, jobshop, single machine, tardiness

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optimal production, plan, optimal production scheduling, demand information, decision support, branch and bound

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critical success factors, information systems management, information resource management

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corporate performance, productivity, performance ratios

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budgeting, knapsack, stability index, research and development
Fatti LP (1988) Current Practice of Operational Research, Management Science in South Africa. **16**(3), 181–188.
South Africa, mining, wildlife management, challenges for OR
Garrod N, Emmanuel CW (1987) An Empirical Analysis of the Usefulness of Disaggregated Accounting Data for Forecasts of Corporate Performance. **15**(5), 371–382.
disaggregated accounting data, business segments, sales forecasts, prediction accuracy
Gold B (1987) Technological Innovation and Economic Performance. **15**(5), 361–370.
sources, economic effects, analytical tools, conceptual and measurement problems
Greenley GE (1988) Managerial Opinions of Marketing Planning. **16**(4), 277–287.
strategy, behavioural, opinions, marketing, planning
Gupta SK, Kyparisis J (1987) Single Machine Scheduling Research. **15**(3), 207–227.
production scheduling, machine scheduling, single machine sequencing
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loans, finance, scheduling, sequencing, single machine
Gupta YP, Raghunathan TS (1988) A Preliminary Model to Aid in the Determination of Optimum Timing for Information System Replacement. **16**(4), 289–296.
system maintenance, replacement, shock models
Gupta YP, Guimaraes T (1988) Measuring Top Management Satisfaction with the MIS Department. **16**(1), 17–24.
IS performance, top management satisfaction, measurement
Haffner EW, Graves RJ (1988) Managing New Product Time to Market Using Time–Cost/Trade Off Methods. **16**(2), 117–124.
new product introduction, time/cost tradeoff, project management, PERT
Hamilton RA (1986) DDP—Managerial Opportunities and Consequences. **14**(6), 475–481.
management decisions, implementation, DDP, system control
Harrison RT, Hart M (1987) Innovation and Market Development: The Experience of Small Firms in a Peripheral Economy. **15**(6), 445–454.
small firms, innovation marketing, regional development, public policy
Harrison RT, Mason CM (1989) The Role of the Business Expansion Scheme in the UK. **17**(2), 147–157.
business expansion schemes, investment
Hassan MMD, Hogg GL (1987) A Review of Graph Theory Application to the Facilities Layout Problem. **15**(4), 291–300.
graph theory, facility layout, application, layout techniques
Hertz DB (1988) American Management Reinvigorated by OR/MS Information Based Modeling. **16**(3), 221–226.
operations research, management science, marketing planning, simulation, operating plans, distribution
Hsieh CH *et al.* (1987) Computerization of Medium-Sized Hospital Without an Internal DP Department **15**(6), 503–508.
computerization, data processing, DP department, hospital computerization, personal computer application
Jackson MC (1987) Present Positions and Future Prospects in Management Science. **15**(6), 455–466.
management science, methodology, operational research, cybernetics, critical theory
Janson MA (1988) Data Quality: The Achilles Heel of End User Computing. **16**(5), 491–502.
end-user computing, data integrity, exploratory data analysis, energy information systems
Jarrett J (1989) Forecasting Monthly Earnings Per Share—Time Series Models. **17**(1), 37–44.
forecasting, exponential smoothing, Box-Jenkins model, time series, seasonal decomposition
Kassicieh SK, Schultz CR (1987) Decision Support Flexible Manufacturing Systems. **15**(6), 495–502.
flexible manufacturing systems, decision support systems, FMS
Kavrakoglu I (1988) OPEC Oil: At What Price? **16**(5), 439–446.
OPEC, petroleum economics, optimal price simulation, oil market
Kern GM (1987) The Effect of Intersector Dispatching on Police Patrol Performance. **15**(5), 411–417.
police operations, emergency services, dispatching, simulation
Keys P (1989) MS, OR Projects and Their Interaction. **17**(2), 113–122.
systems, project management, community OR
Kidd JB (1989) Project Analysis Today—The End-Users' Disquiet? **17**(2), 103–111.
project network analysis, uncertainty, VERT, PC software
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project network analysis, uncertainty, VERT simulation, time estimates
King M (1989) Experiments with Experts Developing Simple Expert Systems. **17**(2), 123–134.
expert systems, artificial intelligence, experiment, classification, education
King WR, Raghunathan TS (1988) The Impact of Information Systems Planning on the Organization. **16**(2), 85–94.
strategic planning, information systems planning, planning
King WR, Szewczak EJ (1987) Organizational Processes as Determinants of Information Value. **15**(2), 103–111.
information value, organizational processes, group decision making
Kottemann JE, Remus WE (1987) Evidence and Principles of Functional and Dysfunctional DSS. **15**(2), 135–143.
decision support systems, effectiveness
Krishnamoorthy S *et al.* (1987) Computer-Aided Site Layout for Construction Projects. **15**(2), 167–174.
connectedness matrix, construction projects graph theory, maximal spanning tree, site layouts
Lockett AG (1987) Ranking of Research Projects: Experiments with Two Methods. **15**(5), 395–400.
R & D, MAUA, comparison
Mabert VA *et al.* (1988) A Decision Support System for the Courier Vehicle Scheduling Problem. **16**(4), 333–345.
vehicle scheduling, routing, banking, messenger routing

Madu CN (1988) The Sensitivity of (Q, S) Inventory Model. **16**(1), 61–64.
sensitivity analysis, inventory
Mangham IL (1988) Managing the Executive Process. **16**(2), 95–106.
executive process, trust, authority, fraternity, group development
Mann GJ, Collins F (1988) Change-Related Behaviour and Information Systems. **16**(5), 369–381.
information systems, resistance to change, behavioral intentions, human needs, group influence, management
McKeen JD, Guimaraes T (1988) Organizational bias in the selection of MIS projects. **16**(4), 297–307.
MIS project selection, organizational bias
Mersha T (1989) Output and Performance Measurement in Outpatient Care. **17**(2), 159–167.
output measurement, performance evaluation, outpatient facilities
Mesak HI, Mikhail WM (1988) Prelaunch Sales Forecasting of a New Industrial Product in a Competitive Market. **16**(1), 41–51.
sales forecasts, new product, purchase modeling, market share model
Mole RH (1988) Corporation Tax on Investment In Plant and Machinery: Two Extreme Cases. **16**(5), 457–467.
NPV, yield distortion, capital investment, tax
Murtagh BA (1989) Optimal Use of Currency Options. **17**(2), 189–192.
financial modelling, nonlinear programming, currency risk, chance constraints
Noori H, Keller G (1988) Impact of Investing in Quality Improvements on the Lot Size Model. **16**(6), 595–604.
inventory control, production management, quality improvement
Nutt PC (1988) The Effects of Culture on Decision Making. **16**(6), 553–568.
culture, decision style, uncertainty, decision making, behaviour
O'Grady PJ, Harrison C (1988) Search Based Job Scheduling and Sequencing with Setup Times. **16**(6), 547–552.
job shop scheduling, computer search, job shop, sequencing, set-up times
Okonjo-Adigwe C (1988) An Effective Method of Balancing the Workload Amongst Salesmen. **16**(2), 159–163.
cutting planes, heuristics, travelling salesman problem, networks, space allocation
Olave M *et al.* (1988) Application of Expert Systems to the Evaluation of Managerial Performance in Public Enterprises of Developing Countries. **16**(4), 353–362.
enterprise evaluation, expert systems, developing countries, management control
Park PS, Bobrowski PM (1989) Work Release Strategies in a Dual Resource Constrained Job Shop. **17**(2), 177–188.
scheduling, release strategy, dual resources, constrained job shop
Rabinowitz G *et al.* (1988) A conceptual scheme of knowledge systems for MS/OR. **16**(5), 421–428.
knowledge systems, cybernetics, information theory, conceptual scheme
Ragsdale C (1989) The Current State of Network Simulation in Project Management Theory and Practice. **17**(1), 21–25.
PERT, simulation, networks
Rahim MA, Banerjee PK (1988) Optimal Production Run for a Process with Random Linear, Drift. **16**(4), 347–351.
tool wear, random linear drifts, optimal production run, Poisson shock model
Rakes T *et al.* (1987) Single Machine Scheduling: A Comparison of Two Solution Procedures. **15**(4), 277–282.
branch and bound, earliness, flow-time, multicriteria, scheduling, tardiness
Revans R (1988) Action Learning and Cybernetics. **16**(2), 125–134.
experience, originality, redemption, subjectivity, self-recognition, verification
Rosegger G, Baird RN (1987) Entry and Exit of Makes in the Automobile Industry, 1895–1960: An International Comparison. **15**(2), 93–102.
automobile industry, product life cycle, innovation, market structure
Samouilides JE *et al.* (1988) Multicriteria Analysis of Energy Supply Decisions in an Uncertain Future. **16**(2), 107–116.
energy, uncertainty, multicriteria, electricity supply
Scudder GD, Chua RCH (1987) Determining Overtime Policies for a Repair Shop. **15**(3), 197–206.
scheduling, inventory systems
Sculli D (1988) Priority Dispatching Rules in an Assembly Shop. **15**(1), 49–57.
priority, shop, rules, assembly, dispatching
Sculli D, Hui CF (1987) Three Dimensional Stacking of Containers. **16**(6), 585–594.
handling, stacking, containers, space utilization
Sculli D (1989) A Historical Note on PERT Times. **17**(2), 195–196.
PERT, estimation, beta distribution
Shim JK, Le SE (1987) The Corporate Planning Process of the Regulated Utility Companies. **15**(4), 263–276.
corporate planning, regulated utility, industry
Silver M, Bennett A (1986) Potential Productivity: Concepts and Application. **14**(6), 443–452.
productivity, capacity utilisation, production functions
Simkin LP (1988) Prioritising Stock Phasing and Safety Margin Coverage for Multiple Retailers. **16**(1), 33–39.
stock-control, forecasting, retailing, marketing
Simkin LP (1989) SLAM; Store Location Assessment Model—Theory and the Practice. **17**(1), 53–58.
location, modelling, retail performance analysis, site assessment
Sissouras AA (1988) In search of an Effective Management Science Application in a Developing Country—the Case of Greece. **16**(3), 249–258.
OR/MS application, developing countries, 'social' OR, policy analysis
Smith PC, Mayston D (1987) Measuring Efficiency in the Public Sector. **15**(3), 181–189.
public sector, efficiency, data envelopment analysis, DEA performance indicators, education
Snaddon DR (1988) Breakdown Theories and Complex Units—A Critique. **16**(2), 135–144.
breakdown, bathtub theory, plant units, complex

Starr MK, Garber HN (1987) Business in Japan and the United States of America; Some Implications for Management Science and Operations Research. **15**(5), 383–388.
global competition, Japanese owned companies, management science, corporate performance
Ta HP, Hiang LG (1987) Singapore Leasing Industry: An Empirical Study. **15**(4), 301–311.
leasing industry, Singapore, lease financing
Thornton P (1988) The Changing Role of Management Sciences in the UK. **16**(3), 227–231.
management science, consultancy, practice/practitioner
Troutt MD (1988) Rank Reversal and the Dependence of Priorities on the Underlying MAV Function. **16**(4), 365–367.
MAV function, value functions, analytic hierarchy process, AHP priorities
Tsubone H, Sugawara M (1987) Hierarchical Production Planning System in the Motor Industry. **15**(2), 113–120.
hierarchical production planning, inventory, disaggregation, scheduling
Tsubone H, Tanaka T (1988) A Production and Scheduling System in the Flow Shop. **16**(6), 608–611.
scheduling, group technology, priority, flow-shop sequencing
Vidal RVV, Frandsen BS (1988) An Analysis of the Distribution System of a Brewery. **16**(6), 509–512.
distribution planning, vehicle routing, heuristics, simulation
Virtanen I, Yli-Olli P (1987) Forecasting Stock Market Prices on a Thin Security Market. **15**(2), 145–155.
market efficiency, stock price forecasting, composite forecasts
Waters CDJ (1988) Expanding the Scope of Linear Programming Solutions for Vehicle Scheduling Problems. **16**(6), 577–584.
routing, vehicle scheduling, mathematical programming
Wen U-P, Chang D-T (1988) Picking Rules for a Two-Carousel-Single-Server System in an Automated Warehouse. **16**(2), 145–152.
carousel conveyor, heuristics, automated warehouse, order picking problem
White GP (1987) The Implementation of Management Science in Higher Education Administration. **15**(4), 283–290.
education, implementation, taxonomy, bibliography, administration
Williamson IP, Eilon S (1988) BARK—Budget Allocation by Ranking and Knapsack. **16**(6), 533–546.
ranking projects, budgeting, knapsack, budget allocation, research and development
Wong TKH (1989) An Application of Game Theory to Corporate Governance. **17**(1), 59–67.
corporate governance, shareholders voting power, Shapley–Shubik
Wright G, Ayton P (1987) Assessing and Improving Judgemental Probability Forecasts. **15**(3), 191–196.
calibration, probability, coherence, decision-making

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